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NOTICE OF ALLOWANCE AND FEE(S) DUE

9629 7590 06/11/2009

MORGAN LEWIS & BOCKIUS LLP
1111 PENNSYLVANIA AVENUE NW
WASHINGTON, DC 20004

EXAMINER

JEAN GILLES, JUDE

ART UNIT

PAPER NUMBER

2443

DATE MAILED: 06/11/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/799,227

03/12/2004

Guy R. Pujol

009974-1122US

7547

TITLE OF INVENTION: METHODS, SYSTEMS, AND SOFTWARE FOR PROVIDING SERVICE INTEGRATION FRAMEWORK

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 09/11/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

9629 7590 06/11/2009

MORGAN LEWIS & BOCKIUS LLP
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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

| |
|--------------------|
| (Depositor's name) |
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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10/799,227 03/12/2004 Guy R. Pujol 009974-1122US 7547

TITLE OF INVENTION: METHODS, SYSTEMS, AND SOFTWARE FOR PROVIDING SERVICE INTEGRATION FRAMEWORK

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|-------------|--------------|---------------|---------------------|----------------------|------------------|----------|
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nonprovisional NO \$1510 \$300 \$0 \$1810 09/11/2009

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
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JEAN GILLES, JUDE 2443 709-229000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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| 9629 | 7590 | 06/11/2009 | EXAMINER | |
| MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004 | | | JEAN GILLES, JUDE | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2443 | |
| DATE MAILED: 06/11/2009 | | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 670 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 670 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | | | |
|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/799,227 | PUJOL ET AL. | |
| | Examiner | Art Unit | |
| | JUDE J. JEAN GILLES | 2443 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/17/2009.
2. ☒ The allowed claim(s) is/are 1-3,6-13,15-27,31-33,35 and 36.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|--|---|

/Jude J Jean-Gilles/
Primary Examiner, Art Unit 2443

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney David Lee, Reg. No. 61,395 on 05/18/2009.

Amendment to the claims

2. In the claims please amend claims 1 and 17 as indicated below:

Claim Listing:

1. (Currently amended) A system for implementing computer network services and applications, comprising:

 a front-end component comprising more than one software application stored in a first processor;

 a back-end component comprising one or more software services stored in a second processor; and

 an abstraction layer component that communicates with each of said more than one software application in said front-end component and each of said one or more software services in said back-end component, wherein:

 said abstraction layer component provides standardization of back end services such that each of said more than one software application in said front-end component accesses each of said one or more software services in said back-end component by communicating through said abstraction layer component, and

 said abstraction layer component provides built-in identity management that accepts a single sign on from a user and uses said single sign on to identify said

Art Unit: 2443

user to each of said one or more software services and each of said more than one software application.

2. (Original) A system as in claim 1, wherein said abstraction layer component is operable to provide de-coupling of services provided by said back-end component.

3. (Previously presented) A system as in claim 1, wherein said abstraction layer component is operable to provide de-coupling of said more than one application in said front-end component.

4. (Canceled)

5. (Canceled)

6. (Original) A system as in claim 1, wherein said abstraction layer component is operable to provide system wide error reporting.

7. (Original) A system as in claim 1, wherein said abstraction layer component comprises a business integration component.

8. (Original) A system as in claim 1, wherein said abstraction layer component comprises a vendor connectivity component.

9. (Original) A system as in claim 1, wherein said abstraction layer component comprises a security component.

10. (Original) A system as in claim 1, wherein said abstraction layer component comprises a utility component.

11. (Original) A system as in claim 1, wherein said abstraction layer component

Art Unit: 2443

comprises a back end connectivity component.

12. (Original) A system as in claim 1, wherein said abstraction layer component uses application templates to provide standardization of business services.

13. (Original) A system as in claim 1, wherein said abstraction layer component is operable to provide one or more standardized interfaces to back end services.

14. (Canceled)

15. (Original) A system as in claim 1, wherein said abstraction layer component is operable to provide one or more standardized interfaces to external consumers and providers.

16. (Original) A system as in claim 1, wherein said abstraction layer component comprises a single deployment platform.

17. (Currently amended) A system for linking more than one software application in a front-end component and one or more software services in a back-end component, comprising:

a vendor connectivity component stored on a first processor;

a business integration component stored on a second processor;

an abstraction layer component comprising a security component, wherein said security component provides identity management that accepts a single sign on from a user and uses said single sign on to identify said user to each of said more than one software application and each of said one or more software services;

a utility component; and

a back end connectivity component, wherein said back end connectivity component enables each of said more than one software application in said front-end component to access each of said one or more software services in said back-end

Art Unit: 2443

component by communicating through one standardized application program interface.

18. (Original) A system as in claim 17, wherein said vendor connectivity component is operable to standardize exposure of said applications to said services.

19. (Original) A system as in claim 17, wherein said vendor connectivity component is operable to provide a consistent abstraction between a user interface and a middle tier.

20. (Original) A system as in claim 17, wherein said vendor connectivity component is operable to use standardized headers to provide substantially seamless system management integration between a caller and said applications.

21. (Original) A system as in claim 17, wherein said vendor connectivity component is operable to provide automatically generated service entry points.

22. (Original) A system as in claim 17, wherein said vendor connectivity component is operable to provide service location and activation capabilities using one or more standard interfaces.

23. (Original) A system as in claim 22, wherein said one or more standard interfaces comprise a Universal Discovery Description and Integration interface.

24. (Original) A system as in claim 17, wherein said business integration component is operable to provide call context information.

25. (Original) A system as in claim 17, wherein said business integration component is operable to provide identity context information.

26. (Original) A system as in claim 17, wherein said business integration component is operable to provide application context information.

27. (Original) A system as in claim 17, wherein said security component is operable to provide distributed security.

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Original) A system as in claim 17, wherein said utility component is operable to enable said applications to access utilities using a standardized application program interface.

32. (Original) A system as in claim 17, wherein said utility component is operable to provide centralized end-to-end system management with an ability to correlate information across a plurality of parameters.

33. (Original) A system as in claim 17, wherein said utility component is operable to enable auditing at system boundaries to manage service level agreements and method level metering.

34. (Canceled)

35. (Original) A system as in claim 17, wherein said back end connectivity component is operable to provide access to back end data sources without changing a back end system.

36. (Original) A system as in claim 17, wherein said back end connectivity component is operable to enable de-coupling of said applications from said services.

Allowed Claims

3. Claims 1-3,6-13,15-27,31-33,35 and 36 are allowed, renumbered 1-29.

Reason for allowance

4. The following is an examiner's statement of reasons for allowance: the closet prior art of record (Ram et al, U.S. Pub. No. 2003/0004853 A1) does not teach nor suggest in detail *"a system for implementing computer network services and applications, with a front-end component comprising more than one software application stored in a first processor; a back-end component comprising one or more software services stored in a second processor; and an abstraction layer component that communicates with each of said more than one software application in said front-end component and each of said one or more software services in said back-end component, wherein said abstraction layer component provides standardization of back end services such that each of said more than one software application in said front-end component accesses each of said one or more software services in said back-end component by communicating through said abstraction layer component, and said abstraction layer component provides built-in identity management that accepts a single sign on from a user and uses said single sign on to identify said user to each of said one or more software services and each of said more than one software application"*, in combination with all the elements of each independent claim as argued by Applicant (see page 9 of applicant's argument dated 03/17/2009 as well as the enabling portions of Applicant's specification, pages 12-17). So as indicated by the above statements, Applicant's arguments have been considered persuasive, in light of the claim limitations as well as the enabling portions of the specification (see fig. 3, par. 0091, 0095, 0080, 0098).

Art Unit: 2443

5. The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from examiner should be directed to Jude Jean-Gilles whose telephone number is (571) 272-3914.

The examiner can normally be reached on Monday- Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger, can be reached on (571) 272-4071. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3301.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-0800.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

Application/Control Number: 10/799,227

Page 9

Art Unit: 2443

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jude J Jean-Gilles/

Primary Examiner, Art Unit 2443

May 26, 2009